

REVISED VERSION

(19) World Intellectual Property Organization International Bureau



. I COTO DECENDO ANI ACO DE PORTO DE P

(43) International Publication Date 9 October 2003 (09.10.2003)

PCT

(10) International Publication Number WO 2003/084192 A1

(51) International Patent Classification7:

H04M 1/02

Jumban.

(21) International Application Number:

PCT/FI2003/000243

(22) International Filing Date: 28 March 2003 (28.03.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 20020614

28 March 2002 (28.03.2002) F

- (71) Applicant (for all designated States except US): NOKIA CORPORATION [FUFI]; Keilalahdentie 4, FIN-02150 ESPOO (FI).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): JAAKKOLA, Mikael [FI/FI]; Tapulikatu 10 C 18, FIN-20810 TURKU (FI).
- (74) Agent: BERGGREN OY AB; P.O. BOX 16, FIN-00101 HELSINKI (FI).

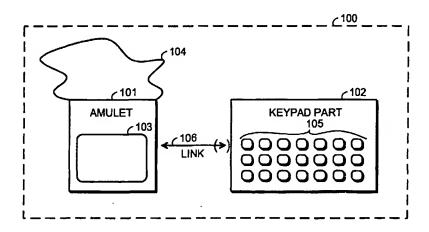
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) Title: A PERSONAL TELECOMMUNICATION DEVICE WITH TWO PARTS AND PRONOUNCED POTENTIAL FOR SELF-EXPRESSION



(57) Abstract: A personal telecommunication device (100) for use as a mobile station of a digital cellular radio network comprises a keypad (105, 221) for allowing a human user to input information to the personal telecommunication device (100) and a display (103, 233) for displaying information to a human user of the personal telecommunication device (100). The personal telecommunication device (100) comprises two mechanically separate structural parts, of which a first part is a keypad part (102, 202, 302, 402, 502, 602, 702) that comprises the keypad (105, 221), and a second part is an amulet (101, 201, 301, 401, 501, 601, 701, 801, 1201) that comprises the display (103, 233). The personal telecommunication device (100) comprises a short distance communication link (106, 222, 231, 322, 331, 722, 731) between said keypad part and said amulet. Said amulet (101, 201, 301, 401, 501, 601, 701, 801, 1201) comprises a hanging arrangement (104) by the help of which said amulet is adapted to be worn on the torso of a human user.



3/084192 A1 III







- (88) Date of publication of the revised international search report: 6 May 2004
- (15) Information about Correction: see PCT Gazette No. 19/2004 of 6 May 2004, Section II

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

International application No.

PCT/FI 03/00243 A. CLASSIFICATION OF SUBJECT MATTER IPC7: H04M 1/02 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC7: HO4M, HO4Q, G06F Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched SE,DK,FI,NO classes as above Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPI, EPODOC C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Category* 1-11,13-22 WO 0065803 A1 (DELALAT HAMID), 2 November 2000 X (02.11.00), page 1, line 8 - line 16; page 2, line 16 - page 3, line 21; page 6, line 28 - line 30, page 7, line 5 - page 7, line 19; page 10, line 16 - page 10, line 22; figure 1; claims 1,3,7-10,15; abstract 12 Υ US 5880732 A (SVEN TRYDING), 9 March 1999 12 (09.03.99), column 1, line 39 - line 54, figure 1, claims 1,5-7,9, abstract X Further documents are listed in the continuation of Box C. χ See patent family annex. Special categories of cited documents: later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "A" document defining the general state of the art which is not considered to be of particular relevance earlier application or patent but published on or after the international filing date "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) step when the document is taken alone document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document referring to an oral disclosure, use, exhibition or other document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 0 6 -06- 2003 2 June 2003 Name and mailing address of the ISA/ Authorized officer Swedish Patent Office

Tomas Wässingbo/MN Telephone No. +46 8 782 25 00

Box 5055, S-102 42 STOCKHOLM

Facsimile No. +46 8 666 02 86



	FC1/F1 03/0						
C (Continu	ation). DOCUMENTS CONSIDERED TO BE RELEVANT						
Category*							
P,X	EP 1271903 A1 (INVENTEC APPLIANCES CORP.), 2 January 2003 (02.01.03), column 2, line 31 - line 38; column 3, line 21 - column 4, line 6; column 5, line 3 - line 6, column 5, line 31 - column 5, line 35; figure 1; claims 1-8; abstract	1-4,8-11,13, 15-17,22					
							
A	US 6233002 B1 (HIROAKI SHIBAYAMA), 15 May 2001 (15.05.01), claims 1-14, abstract	1-22					
1							
		٠.					
		·					
.							
		·					
	•						
		·					
		•.					
		į.·					
	·						

Form PCT/ISA/210 (continuation of second sheet) (July 1998)



International application No.
PCT/FI 03/00243

Patent document cited in search report		Publication date		Patent family member(s)	Publication date .
WO 0065803	3 A1	02/11/00	AU EP SE SE US	4635500 A 1115816 A 9901520 D 9904102 A 6432890 B	10/11/00 18/07/01 00/00/00 27/10/00 13/08/02
US 5880732	? A	09/03/99	AU AU BR CN EE EP JP WO	754045 B 7354998 A 9809009 A 1253689 T 9900483 A 0979570 A 2001522559 T 9849815 A	31/10/02 24/11/98 08/08/00 17/05/00 15/06/00 16/02/00 13/11/01 05/11/98
EP 1271903	8 A1	02/01/03	NONE		
US 6233002	B1	15/05/01	CN GB HK JP JP	1215970 A 2329737 A,B 9820472 D 1017470 A 3062135 B 11098590 A	05/05/99 31/03/99 00/00/00 00/00/00 10/07/00 09/04/99